Plan Approval, Construction Standards & Significant Deficiencies

Utah Division of Drinking Water

Nathan Lunstad, P.E.





Presentation Topics

- Division of Drinking Water Overview
- Which Public Drinking Water Projects are Subject to Plan Review
- III. Plan Approval & Operating Permit
- V. How to Qualify for Plan Submittal Waiver
- V. Recent Changes to the Rules
- Resolve Significant Deficiencies

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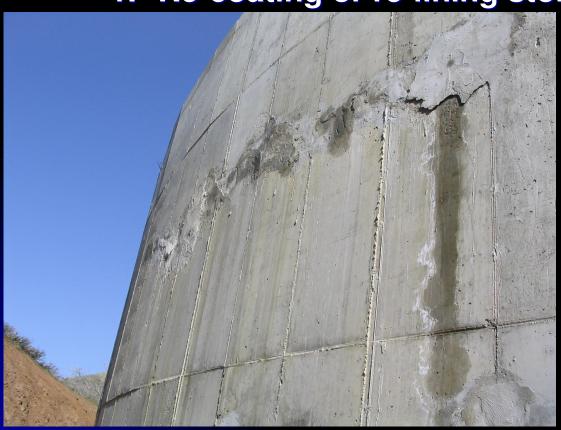
Division of Drinking Water Organization Chart

II. Projects Subject to Plan Review



"Construction, Addition, and Modification" of Drinking Water Facilities — *Plan Review Required*

1. Re-coating or re-lining storage tank interior





"Construction, Addition, and Modification" of Drinking Water Facilities — *Plan Review Required*

2. "In-situ" re-lining of pipeline



"Construction, Addition, and Modification" of Drinking Water Facilities — *Plan Review Required*

3. A change or addition of treatment chemical



"Construction, Addition, and Modification" of Drinking Water Facilities — *Plan Review Required*

4. Redevelopment of a well or spring



"Construction, Addition, and Modification" of Drinking Water Facilities — *Plan Review Required*

5. Replacement of well pump with one of different capacity



"Construction, Addition, and Modification" of Drinking Water Facilities — *Plan Review Required*

- 6. Deepen a well
- 7. Construct a new well or a replace a well





"Construction, Addition, and Modification" of Drinking Water Facilities — *Plan Review Required*

8. Add a booster pump, or PRV, or a chlorinator



Projects Not Subject to Plan Review Ongoing O & M Procedures



Plan Review NOT Required

1. Pipeline leak repair



Plan Review NOT Required

- 2. Replacement of existing pipeline
 - a) Same size pipe
 - b) Upgrade to meet minimum pipeline sizes or larger sizes determined by a hydraulic analysis



Plan Review NOT Required

3. Tapping existing water mains to connect new service laterals



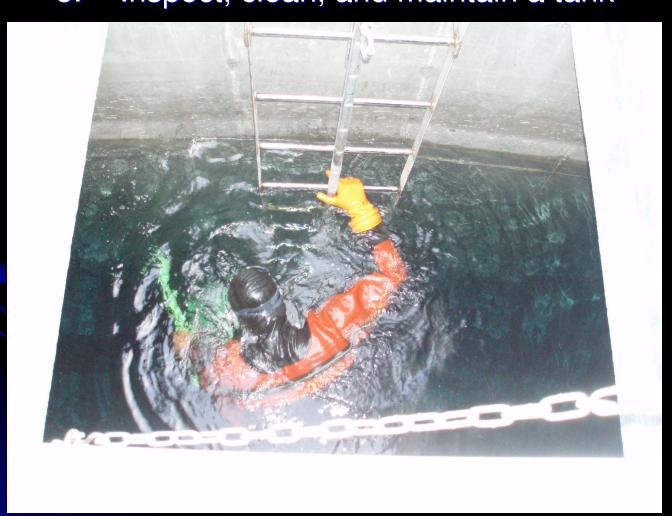
Plan Review NOT Required

- 4. Distribution pipeline addition <500' or total <1,000'/yr
 - a) Same size pipe
 - b) Pipe size meeting minimum pipeline sizes or larger sizes determined by a hydraulic analysis



Plan Review NOT Required

5. Inspect, clean, and maintain a tank



Plan Review NOT Required

6. Replacement of equipment or appurtenances of <u>same</u> type, size, and rated capacity





III. Plan Approval & Operating Permit

			Print Form Submit by	Email	
	PROJECT NOTIFICATION	FC	ORM (PNF)		
	Please provide the following information for all Drinking Water F	Proje	File No: Date Rec'd:		
	Use with Plan Submittal [R309-500-6(1)] or when requesting Waiving of	of Pla			
	State of Utah - Dept of Environmental Quality - Division of P.O. Box 144830 - Salt Lake City, Utah - 84114-4830 (801) 536-4				
ĺ	Name of PWS [owner of system as recorded with DDW]	6	Description of Project [in sufficient detail for DDW to iden	ntify]	
	System Name:				_
	System Number:				
	Address:				
	City, State, Zip:				
	Present No. of ERC's system is obligated to serve:				
	Present No. of ERC's physically connected to system:				
	Population Served:				
	No. of ERC's this project will add to system:				
٩d	dressee for Official Correspondence [Mayor, Public Works Director, etc]	7	Anticipated Construction Schedule:		
	Name:		Bid: Award:		
	Title:		Start: Completion:		
	Address:	8	Is this PNF for plan review waiver?		
	City, State, Zip:	۰	[see R309 500-6(3a) or (3b) to verify]	Yes	N
	Phone No:		If Yes, either you must have (1) a previously approved Master Plan and Construction Standards		
	E-Mail Address:		or (2) a designated PE responsible for the system and previously approved		
			Construction Standards.		
	PE designated as Direct Responsible Engineer for Entire System if applicable)		Does this project meet any of the criteria to be exempt	Yes	N
	Company Name:		from the hydraulic modeling rule requirements? [see R309 511-4(1)(a)(i) through (iv) to verify]		Γ
	Name:		If Yes, specify rule reference here:		
	Address:		[for example, R309-511-4(1)(a)(ii)]		
	City, State, Zip:				
	Phone No:	9	Fire Suppression Authority [if system has fire hydrants]		
	E-Mail Address:		Name:		
ī	PE responsible for design of this Project [if not same as item 3]		Address:		
	Name:		City, State, Zip:		
	Address:		Phone No: Fax No:		
	City, State, Zip:		E-Mail Address:		
	Phone No: Fax No:		Reg'd flow (gpm): Duratio	n (hrs):	_
	E-Mail Address:	10	Funded by State or Federal Agency?		
	Name of Construction Inspector(s) and frequency of inspection		Orinking Water Board (SRF or FSRF) Loan #:		
	Name:		Community Impact Board		
	Full Time: Part Time:		O None		
			Other (Speciify)		

DIVISION OF DRINKING WATER OPERATING PERMIT CHECKLIST

With the exception of distribution lines (and distribution lines with booster pumps and pressurereducing valves), the following items must be submitted and found to be acceptable for all projects:

proje	ects:							
	Utah Registered Engineer's statement of what plan changes, if any, were necessary during construction and Utah Registered Engineer's Certification of Conformance that all of these changes were in accordance with applicable Utah Administrative Code, namely, Rule Series 500, Drinking Water Facility, Construction, Design, and Operation.							
	Utah Registered Engineer's R309-500-9 Certification of Rule Conformance that all conditions of plan approval (including conditions set forth by the Executive Secretary in any conditional approval letter) have been accomplished.							
	As-built drawings have been received at the Division (unless no changes were made to the pre-construction drawings).							
	Confirmation that as-built drawings have been received at the water system (unless no changes were made to the pre-construction drawings).							
	Evidence of proper flushing and disinfection in accordance with the appropriate ANSI/AWWA Standard.							
	☐ ANSI/AWWA C651-92 AWWA Standard for Disinfecting Water Mains ☐ Two consecutive sample sets (each 1200 feet, end-of-line, each branch, etc.), none positive, at least 24 hours apart.							
	□ ANSI/AWWA C652-92 AWWA Standard for Disinfection of Water-Storage Facilities □ One or more samples, none positive.							
	☐ ANSI/AWWA C653-97 AWWA Standard for Disinfection of Water Treatment Plants							
	$\hfill\square$ Two consecutive samples per unit, none positive, no less than 30 minutes apart.							
	☐ ANSI/AWWA C654-97 AWWA Standard for Disinfection of Wells							
	$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $							
	Water quality data, where appropriate.							
	[Guidance: Storage tank water should be analyzed for residual volatile organic compounds used during tank interior painting or coating.]							
	Water system owner has been provided with O&M manuals for any new facilities.							

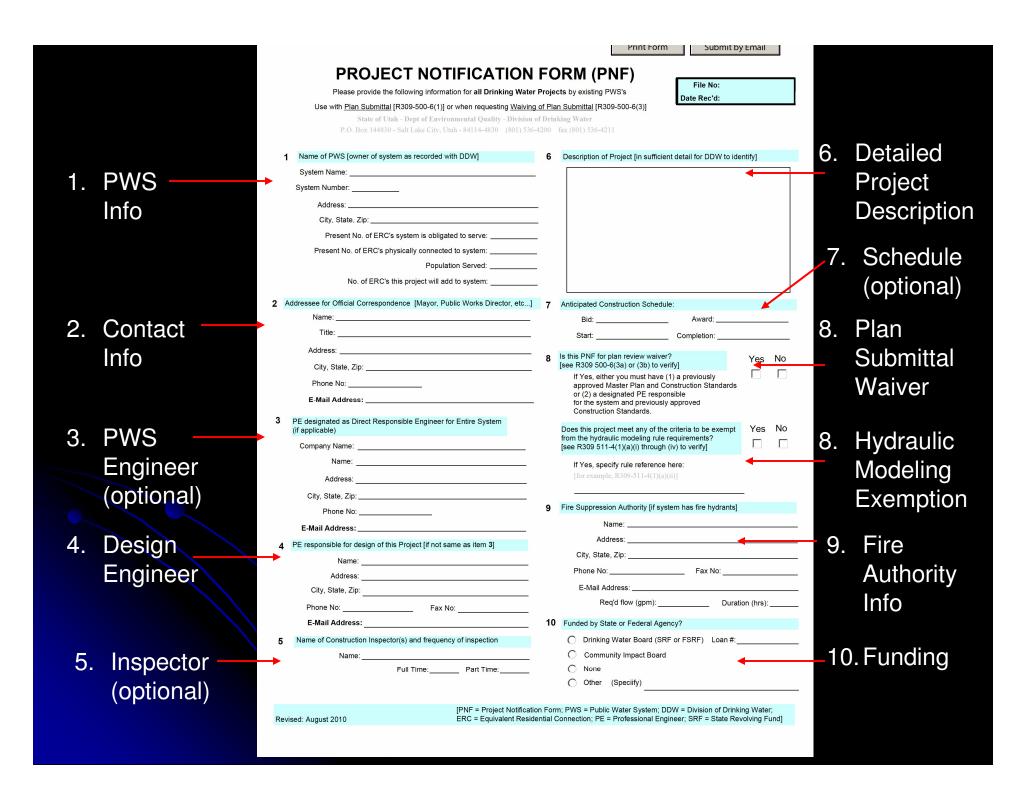
150 North 1950 West • PO Box 144830 • Salt Lake City, UT 84114-4830 • phone (801) 536-4200 • fax (801) 536-4211



Plan Approval & Operating Permit

Submit a "project notification form"

	Please provide the following information for all Drinking Water F Use with <u>Plan Submittal</u> [R309-500-6(1)] or when requesting <u>Waiving</u> or	-		File No: Date Rec'd:		
	State of Utah - Dept of Environmental Quality - Division of			11		
	P.O. Box 144830 - Salt Lake City, Utah - 84114-4830 (801) 536-4					
1	Name of PWS [owner of system as recorded with DDW]	6	Description of Project [in	sufficient detail for DDW to id	lentify]	
	System Name:					
	System Number:					
	Address:					
	City, State, Zip:					
	Present No. of ERC's system is obligated to serve:					
	Present No. of ERC's physically connected to system:					
	Population Served:					
	No. of ERC's this project will add to system:					
2	Addressee for Official Correspondence [Mayor, Public Works Director, etc]	7	Anticipated Construction	Schedule:		
	Name:		Bid:	Award:		
	Title:		Start:	Completion:		
	Address:	8	Is this PNF for plan review	waiver?		
	City, State, Zip:	٥	[see R309 500-6(3a) or (3	b) to verify]	Yes	
	Phone No:	If Yes, either you must have (1) a previously approved Master Plan and Construction Standards				
	E-Mail Address:		or (2) a designated Pt for the system and pre	E responsible		
3			Construction Standard	ds.		
3	PE designated as Direct Responsible Engineer for Entire System (if applicable)		Does this project meet an	y of the criteria to be exempt	Yes	
	Company Name:		from the hydraulic modelli [see R309 511-4(1)(a)(i) t	ng ruie requirements? hrough (iv) to verify]		
	Name:		If Yes, specify rule ref	erence here:		
	Address:		[for example, R309-511			
	City, State, Zip:				_	
	Phone No:	9	Fire Suppression Authorit	y [if system has fire hydrants	l	
	E-Mail Address:		Name:			
4	PE responsible for design of this Project [if not same as item 3]		Address:			
4	Name:		City, State, Zip:			
	Address:		Phone No:	Fax No:		
	City, State, Zip:		E-Mail Address:			
	Phone No: Fax No:		Req'd flow (gr	om): Dura	ation (hrs)	:_
	E-Mail Address:	10	Funded by State or Fede	ral Agency?		
5	Name of Construction Inspector(s) and frequency of inspection		-	ard (SRF or FSRF) Loan #:		
3	Name:		Community Impac			
	Full Time: Part Time:		O None	Dourd		





Plan Approval & Operating Permit

Submit plans and specifications

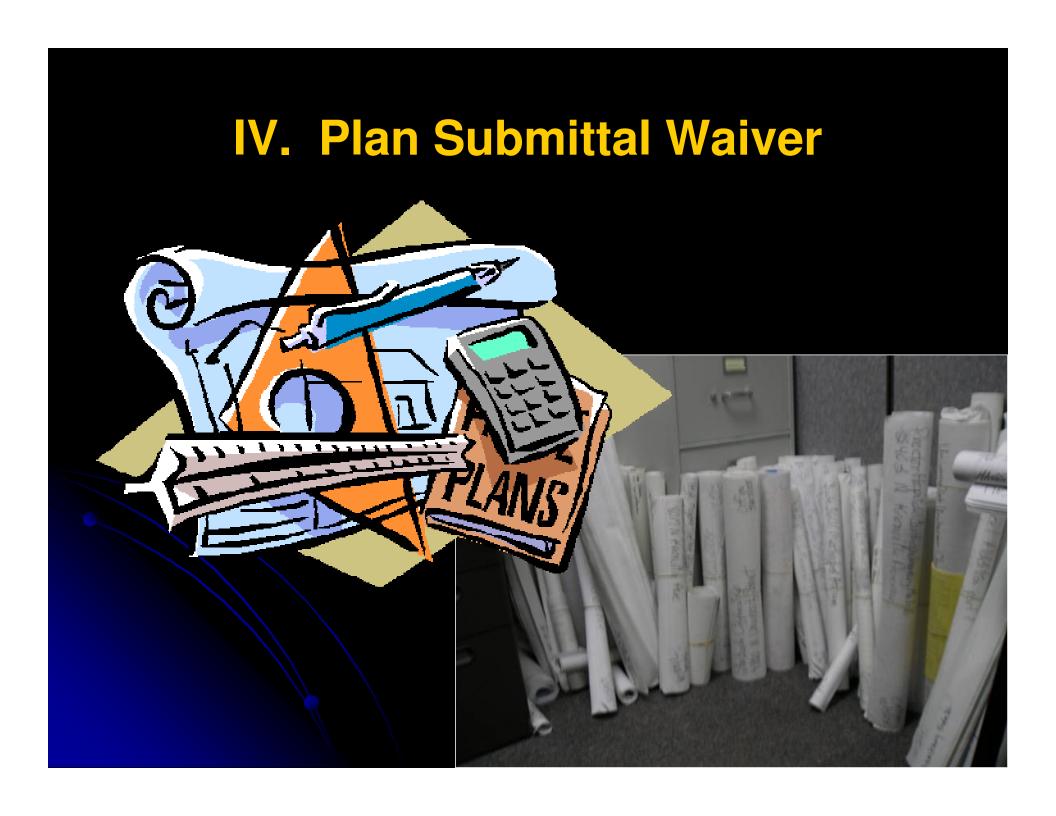
- 1. Submit at least 30 days in advance.
- 2. Should be previously reviewed by the PWS for conformance with their own requirements.
- 3. The submittal should be made by the <u>PWS</u>.
- 4. DDW does not approve subdivision plats.
- 5. Should be final and complete for actual construction.
- 6. Stamped, signed, and dated by a Utah P.E.



Plan Approval & Operating Permit

- No construction until Plan Approval issuance
 - 50 deficiency points for not obtaining Plan Approval
- Obtain Operating Permit prior to placing the facility in service
 - 50 to 150 deficiency points for not obtaining OP

DIVISION OF DRINKING WATER OPERATING PERMIT CHECKLIST With the exception of distribution lines (and distribution lines with booster pumps and pressurereducing valves), the following items must be submitted and found to be acceptable for all 1. PE Statement of Changes Utah Registered Engineer's statement of what plan changes, if any, were necessary during construction and Utah Registered Engineer's Certification of Conformance that all of these changes were in accordance with applicable Utah Administrative Code, namely, Rule Series 500, Drinking Water Facility, Construction, Design, and Operation. PE Certification of Conformance Utah Registered Engineer's R309-500-9 Certification of Rule Conformance that all conditions of plan approval (including conditions set forth by the Executive Secretary in any conditional approval letter) have been accomplished. As-builts Submitted to DDW As-built drawings have been received at the Division (unless no changes were made to the pre-construction drawings). As-builts Received by PWS Confirmation that as-built drawings have been received at the water system (unless no changes were made to the pre-construction drawings). 5. Evidence of Flushing and Evidence of proper flushing and disinfection in accordance with the appropriate ANSI/AWWA Standard. Disinfection ANSI/AWWA C651-92 AWWA Standard for Disinfecting Water Mains Two consecutive sample sets (each 1200 feet, end-of-line, each branch, etc.), none positive, at least 24 hours apart. ANSI/AWWA C652-92 AWWA Standard for Disinfection of Water-Storage Facilities ☐ One or more samples, none positive. ANSI/AWWA C653-97 AWWA Standard for Disinfection of Water Treatment Plants Two consecutive samples per unit, none positive, no less than 30 minutes apart. ☐ ANSI/AWWA C654-97 AWWA Standard for Disinfection of Wells 6. Submit other Water Quality Data ☐ Two consecutive samples, none positive, no less than 30 minutes apart. if needed Water quality data, where appropriate. [Guidance: Storage tank water should be analyzed for residual volatile organic compounds used during tank interior painting or coating.] O&M Manuals given to PWS Water system owner has been provided with O&M manuals for any new facilities.



Waiving Plan Submittal R309-500-6(3)

- Distribution system improvements (excluding PRV & booster pump stations)
 - a) Previously approved <u>master plan</u> and <u>standard</u> <u>installation drawings</u>
 - b) <u>Designated PE</u> directly responsible for PWS
 Previously approved <u>standard installation drawings</u>
 Meeting limits of <u>pipe size and population</u>
- Operating Permit is still required even if a plan submittal waiver is granted.

Print Form

Submit by Email

PROJECT NOTIFICATION FORM (PNF)

Please provide the following information for all Drinking Water Projects by existing PWS's

File No: Date Rec'd:

Use with Plan Submittal [R309-500-6(1)] or when requesting Waiving of Plan Submittal [R309-500-6(3)]

State of Utah - Dept of Environmental Quality - Division of Drinking Water
P.O. Box 144830 - Salt Lake City, Utah - 84114-4830 (801) 536-4200 fax (801) 536-4211

	Name of PWS [owner of system as recorded with DDW]	6	Description of Project	in sufficient detail for DDW to ide	ntify]	
	System Name:					
	System Number:					
	Address:					
	City, State, Zip:					
	Present No. of ERC's system is obligated to serve:					
	Present No. of ERC's physically connected to system:					
	Population Served:					
	No. of ERC's this project will add to system:					
2	Addressee for Official Correspondence [Mayor, Public Works Director, etc]	7	Anticipated Construction	on Schedule:		
	Name:		Bid:	Award:		
	Title:		Start:	Completion:		23
	Address:		Is this PNF for plan revi	ew waiver?	-	Ni.
	City, State, Zip:	8	[see R309 500-6(3a) or	(3b) to verify]	Yes	140
	Phone No:			ust have (1) a previously lan and Construction Standards		
	E-Mail Address:	\	or (2) a designated	PE responsible previously approved	_	/
3	PE designated as Direct Responsible Engineer for Entire System (if applicable)			any of the criteria to be exempt	Yes	No
	Company Name:		from the hydraulic mod [see R309 511-4(1)(a)(eling rule requirements? i) through (iv) to verify]		

V. Recent Engineering Rule Changes

- Hydraulic Modeling Rule
- Disinfection Rule
- Minimum Water Pressure
- Storage Volume
- Tank Vents

Hydraulic Modeling Rule New Rule R309-511

- Effective March 2010
- Rule Applicability
 - Community & NTNC systems with high demands
 - Checklist available
- Rule Elements
 - Hydraulic model
 - Engineer's certification
 - "Hydraulic Model Design Elements Report" or "System Capacity and Expansion Report"

Drinking Water Projects That Should Include Hydraulic Modeling

- Water system <u>expansion</u>
- New Construction that is expected to have hydraulic impact
- Master Plan

Hydraulic Modeling Exclusion Criteria R309-511-4(1)(a)

- No negative hydraulic impact
- ii. A part of a pre-approved master plan
- iii. Systems maintains a hydraulic model and has designated a P.E. who oversees the hydraulic analyses.
- iv. Real time data indicative of modeled hydraulic conditions

Disinfection Rule

Amended Rule R309-520

- Effective May 2011
- R309-110-4 Definitions
 - Add definitions of "detectable residual" and UV terminology.
- R309-520 Disinfection Rule
 - Substantial changes (from 14 to 31 pages long)
 - 1. Chlorination (chlorine gas, sodium hypochlorite, calcium hypochlorite, and on-site generation)
 - 2. Chlorine dioxide
 - 3. Ozone
 - 4. UV
 - UV Monitoring and Reporting Protocol

Minimum Water Pressures R309-105-9

- For PWS approved prior to 1/1/2007:
 - 20 psi minimum dynamic pressure at all locations during normal operation
 - Meet the new minimum pressures in new service areas
- New construction after 1/1/2007 at points of connection:
 - 20 psi with fire flow during peak day demand
 - 30 psi during peak instantaneous demand
 - 40 psi during peak day demand
- Individual home booster pumps not allowed

TW1000-10W-65 PRO SERIES

3/4 HP – 220 VAC RESIDENTIAL EXCELLENT WITH CISTERN AND STORAGE TANKS

VARIABLE SPEED CRUISE CONTROL FEATURE
PUMP WILL AUTOMATICALLY MAINTAIN DESIRED PRESSURE



Specifications:

Pump: Walrus of America #2T-5K Controller: Gould/ABB/Emerson Based on Availability Assembler: Towle Whitney LLC Power: 208-220V/1 PH/20Amp 115V Optional HP: 3/4 HP

Flow Rate: 10 GPM Boost: 65 PSI Over existing pressure

Suction: 1"
Discharge: 1"
Tank: 2 Gallon
All Parts Shown Included

Some Assembly required

100 240 3K 60Hz

100 200 3K 60Hz

100 3K 60 160 3K 60Hz

100 20 160 3K 60Hz

TOWLE WHITNEY LLC ned@towle-whitney.com www.towle-whitney.com Toll Free: 800-807-9827

Tel: 603-626-7371 Fax: 603-626-7372

Actual system may vary from picture shown

Warrantees are passed through and as published in the Unginal Equipment manufacturers interature that is included with this system. In no event shall Towle Whitney LLC be liable for incidental or consequential damages, or limitation on how long an implied warranty lasts. It being intended that purchaser's exclusive remedy is limited to replacement of defective products. Water damage exclusion: it is understood that Towle Whitney LLC accepts no responsibility for water damage regardless of what or who caused water damage or any consequential personal injuries, liabilities or property damages resulting.

Individual Booster Pumps R309-550-11(3)

Individual booster pumps shall not be allowed for any individual service from the public water supply mains. Exceptions to the rule may be provided by the Executive Secretary if it can be shown that the granting of such an exception will not jeopardize the public health.

Individual Booster Pumps

R309-550-11(3) Guidance

- Cross Connection Control Programs are required.
- May create a vacuum or low pressure in the water main causing backflow.
- DDW can not regulate the individual homeowner. PWS do not want to encourage the use of such pumps.
- Exceptions may be allowed where there is no other acceptable alternative.
- Each PWS should review language in the service agreements with customers. Perhaps modify to make it clear that such pumps are not allowed, unless the permission of the supplier and authorized by the Executive Secretary.

Individual Booster Pumps

International Plumbing Code (IPC) & <u>State</u>
 Amendments

Sections 602.3.5 and 602.3.5.1 on Individual Home Booster Pumps are deleted from the IPC

Storage Volume?



Hydropneumatic Systems R309-540-6(1)&(5)

- Community systems & NTNC systems with a demand in excess of required source capacity
 - Require ground level or elevated storage
 - Provide at least two pumping units
- Community systems
 - Diaphragm or air pressure tanks are NOT for storage
- TNC & NTNC systems with sufficient source capacity
 - Can count hydropneumatic tank volume toward storage
 - Not required to have two pumping units

Hydropneumatic System vs. Storage

- Example 1. Fablehaven Town (_____type PWS)
 Hydropneumatic tank 3,000 gallons & 50% bladder capacity.
 Effective water volume = _____ gallons
 Can this water volume be counted toward storage volume? _____
- Example 1. Fablehaven Town (Community type PWS)
 Hydropneumatic tank 3,000 gallons & 50% bladder capacity.
 Effective water volume = 1,500 gallons
 Can this water volume be counted toward storage volume? NO

Hydropneumatic System vs. Storage

- Example 2. Fast & Furious Rest Stop (______ PWS)
 Hydropneumatic tank 3,000 gallons & 50% bladder capacity.
 Effective water volume = _____ gallons
 Can this water volume be counted toward storage volume? _____
- Example 2. Fast & Furious Rest Stop (TNC PWS)
 Hydropneumatic tank 3,000 gallons & 50% bladder capacity.

 Effective water volume = 1,500 gallons
 Can this water volume be counted toward storage volume? YES

Hydropneumatic System vs. Storage

Example 3. Kiddie School (______ PWS)
 System peak day demand = 200 gpm
 Historical low spring flow = 300 gpm
 Hydropneumatic tank 3,000 gallons & 50% bladder capacity.
 Effective water volume = _____ gallons
 Can this water volume be counted toward storage volume?

Example 3. Kiddie School (NTNC PWS)

System peak day demand = 200 gpm

Historical low spring flow = 300 gpm

Hydropneumatic tank 3,000 gallons & 50% bladder capacity.

Effective water volume = 1,500 gallons

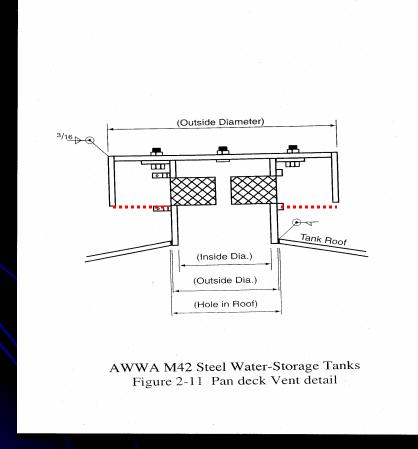
Can this water volume be counted toward storage volume? YES

Storage Tank Venting R309-545-15

- Inverted Vent Be downturned a minimum of two inches below any opening or shielded to prevent the entrance of surface water and rainwater.
- Open Discharge On <u>buried</u> structures, have the discharge a minimum of <u>24</u> <u>inches</u> above the earthen covering.

Pan Deck Vent (AWWA M42 Design)

This no longer meets our tank vent standard, unless the cap extends 2" below the opening.



Tank Vent

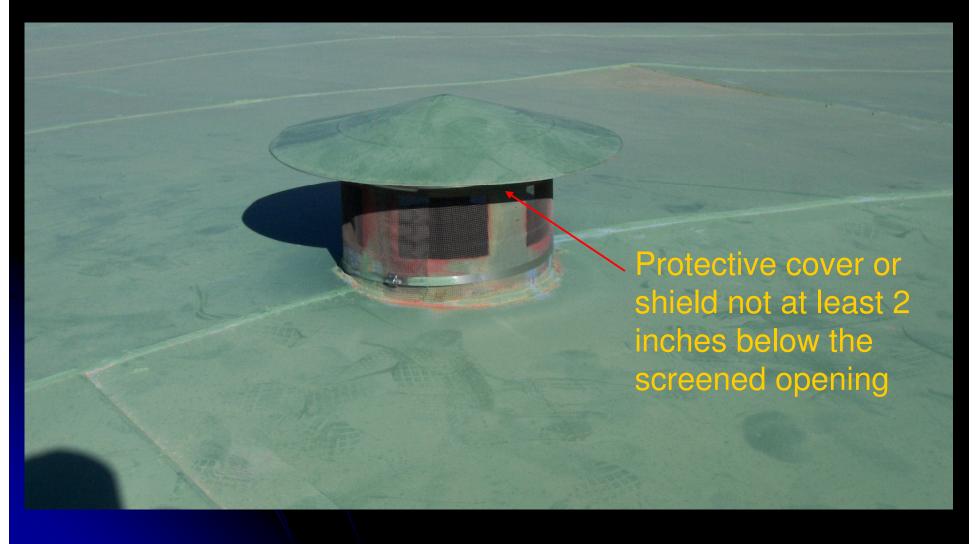


Properly down turned & screened (#14 mesh screen with #4 protective screen)

Clearance of 24 inches or greater above grade

Tank Vent

This does NOT meet the tank vent standard.



VI. Resolving Significant Deficiencies

- 450+ violation letters sent
- July 31, 2011 deadline & consequence
- Primary Contact
 - > John Oakeson (801) 536-0057
 - Ying-Ying Macauley (801) 536-4188
- A surge of exception requests & technical reviews

Significant Deficiency Options

- Correct deficiency and notify DDW
- 2. Request exception-to-rule with justifications
- 3. Request technical review or re-evaluation
 - Storage capacity requirement
 - Source requirement
- 4. Enter into a Corrective Action Plan with DDW
- Do nothing & face enforcement actions from state and EPA

Attach supporting document

Print Form

Submit by Email

Utah Division of Drinking Water IPS Deficiency Correction Notice

water sy	stem Name		
Water S	ystem ID #UTA ons	H	
Please use IPS report was correct with the d of the corr	e this form to repo t. List the individu cted and the date of ate of the correction	rt the correction of sanitary survey defici- nal Facility ID (where applicable), deficient the correction below. You may attach a cop- noted on the report. Pictures of correction ged. Include the name of the facility and the	ncy code, how deficiency py of your IPS report s or a brief description
Facility ID	Deficiency Code	How deficiency was corrected	Date Corrected
		,	
	-		
		on submitted with this report is true and according by typing your name in the Signature bloom	
	me	Signature	Date

How to Request for Exception-to-Rule

Submit a written request to Executive Secretary with:

- 1. Citation of specific rule
- 2. A detailed explanation of why the conditions of rule cannot be met for which facility
- 3. What the water system proposes in lieu of rule
- 4. Justification

Exception to Spring Fencing Requirement



Exception to Spring Fencing Requirement

- 1. Request exception to R309-515-7(7)(e).
- 2. Sunshine Spring (WS001) can't meet the rule because of steep terrain.
- 3. Propose to conduct <u>monthly inspection</u> of spring collection area and diversion channel during operating months.
- 4. No cattle grazing activity; source protection ordinance exists; PWS owns and has control of the spring area; etc.

Exception to Spring Flow Measuring Device Requirement

- 1. Exception to R309-515-7(7)(h).
- 2. Forest Spring (WS002) can't meet the rule because of cost & partial or variable flow.
- Propose to conduct the beginning and the end of the season & monthly flow measurements during operating months using bucket and stop watch.
- 4. Maintain spring flow records for DDW review.

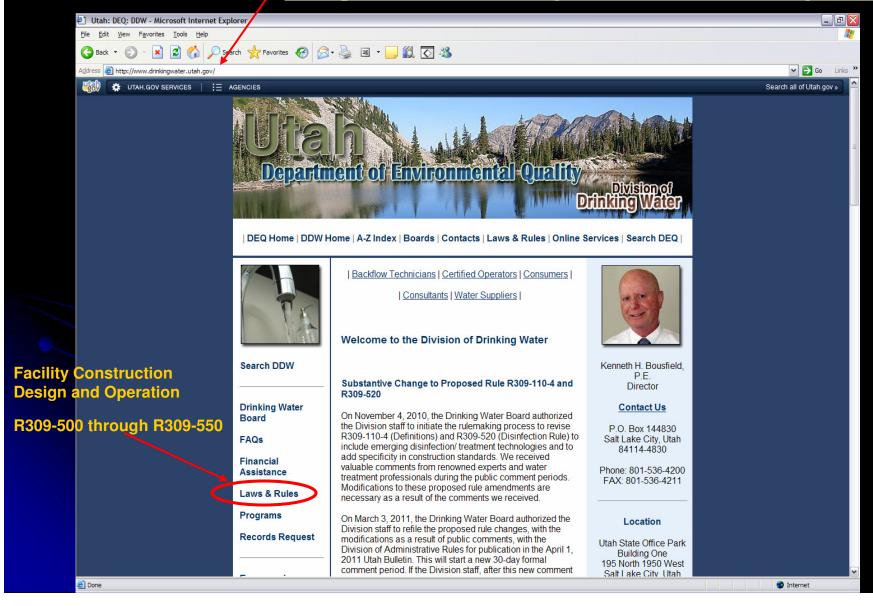
Exception to Storage Volume Requirement

- 1. Exception to R309-510-8.
- 2. RV Park Tank (ST001) can't meet the rule because of cost & lack of land/elevation.
- 3. Propose to install <u>dual well pump</u> and a <u>backup generator</u>.
- 4. Well capacity far exceeds peak day demand; no fire demand; has a back up system to meet the intent of the rule.

Exception to Water/Sewer Lines Minimum Separation Requirements

- 1. Exception to R309-550-7(1).
- 2. Can't meet the rule at Center St./200 E because of existing 24" sewer main & narrow road
- 3. Propose to install flowable fill between sewer and water lines & use fusible PVC for waterline within 50 ft of both sides of the crossing.
- 4. Minimize risk by eliminating joints & no known high ground water table in the area.

Where can I find the Rules? http://drinkingwater.utah.gov/





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- · Monitoring and Reporting
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- Plan Review
- Sanitary Surveys
- Source Protection

Questions?

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